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Induction Logging System and Method Featuring Multi-Frequency Skin Effect Correction

Abstract of the Disclosure

[0070] A system and method of correcting skin effect of conductivity measurements

made by electromagnetic induction well logging instruments. A limited number of

measurements using different frequencies may be used. The skin effect correction system and

method is capable of processing a complex signal waveform but only requires the in-phase signal

measurements which are then corrected for the skin effect value and the geometric factors of the

apparent conductivity measurements, thus making the corrected measurements suitable for

advanced processing with modern array-type induction logging tools.

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